


CONTRACT No.: W912DS-05-B-0019



**US Army Corps
of Engineers**
New York District

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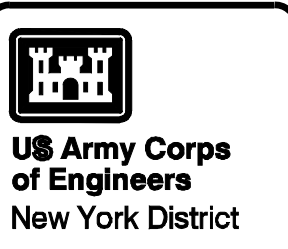
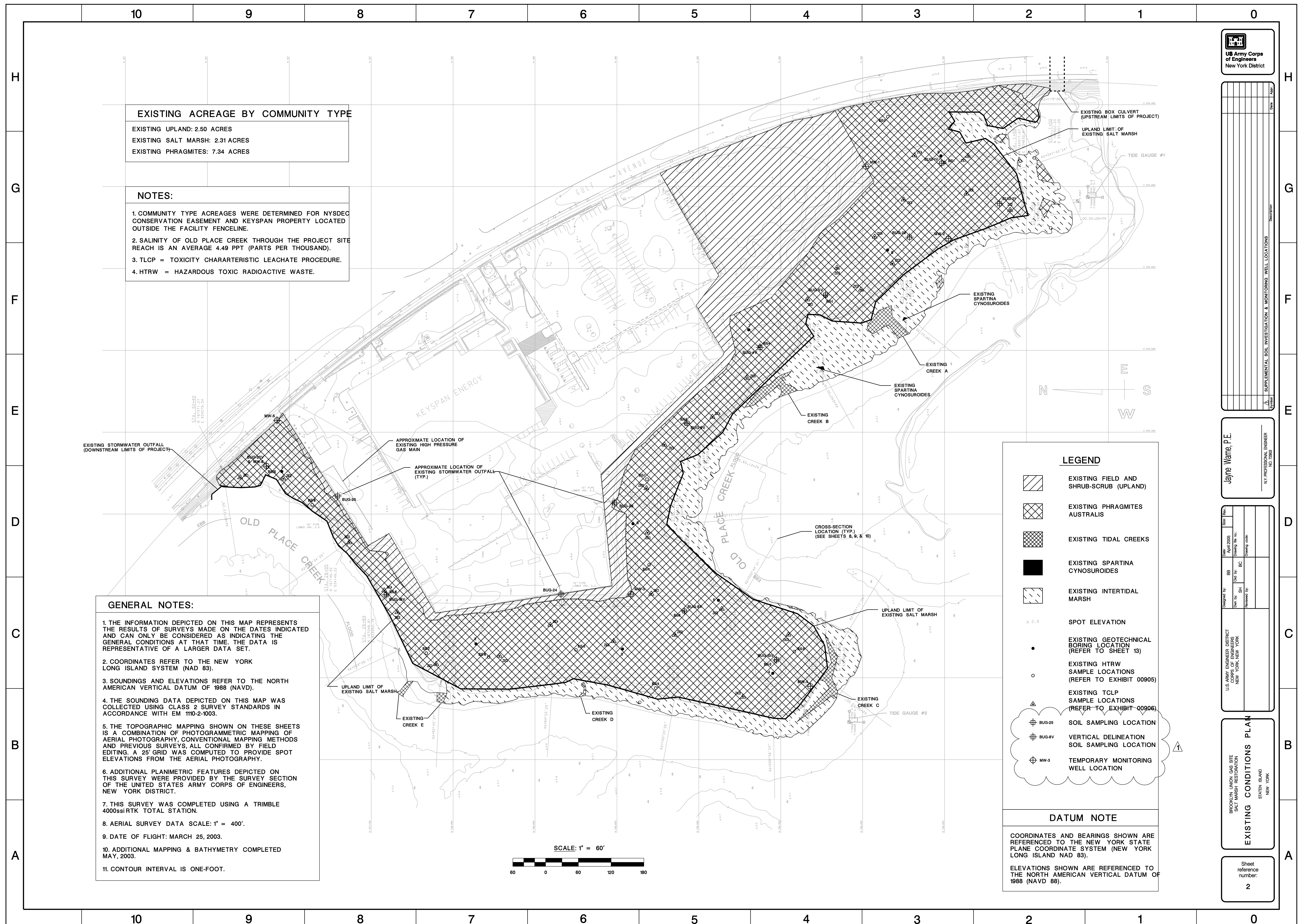
Jayne Warne, P.E.
N.Y. PROFESSIONAL ENGINEER
NO. 72903

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK	Designed by	BB	Date	April 2005	Scale	Revs.
	Own by	SH	Old by	Drawing file no.		
	Reviewed by	BC	Drawing code			

BROOKLYN UNION GAS SITE
SALT MARSH RESTORATION
COVER SHEET
STATEN ISLAND
NEW YORK

Sheet
reference
number:

1

[illegible]

Jayne Warne, P.E.

NO. 72903

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK	Designed by: BB	Drawn by no.: BC	Scale: 1/8" = 1'-0"
	Date by: SH	Drawing code:	
	Reviewed by:		

BROOKLYN UNION GAS SITE
SALT MARSH RESTORATION

EXISTING CONDITIONS PLAN

STATEN ISLAND
NEW YORK

Sheet
reference
number:

2

PROPOSED MITIGATION ACREAGE

EXISTING SALT MARSH: 2.31 ACRES
PROPOSED LOW MARSH: 3.21 ACRES
PROPOSED HIGH MARSH: 0.87 ACRES
PROPOSED INTERPLANTING MARSH: 1.31 ACRES
PROPOSED MARITIME SCRUB: 1.27 ACRES
TOTAL RESTORATION/ENHANCEMENT ACREAGE: 8.97 ACRES

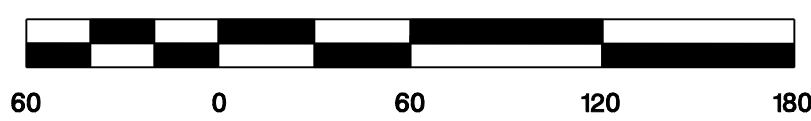
NOTES:

1. CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN A DRY WORK ENVIRONMENT TO FACILITATE THE ACHIEVEMENT OF SUB AND FINISH GRADES.
2. THE CONTRACTOR SHALL DEVELOP AND SUBMIT AN EROSION CONTROL AND DEWATERING PLAN PRIOR TO BEGINNING CONSTRUCTION IN ACCORDANCE WITH THE CONDITIONS PRESENTED IN THE CONSTRUCTION SPECIFICATIONS.
3. THE CONTRACTOR SHALL LOCATE AND STAKE OUT ALL UTILITY LINES PRIOR TO BEGINNING CONSTRUCTION. THIS INCLUDES ALL DRAINAGE PIPES, STORM WATER OUTFALLS AND THE HIGH PRESSURE GAS MAIN ON KEYSAN ENERGY'S PROPERTY.
4. EROSION CONTROL BLANKET TO BE INSTALLED BETWEEN PROPOSED ELEVATIONS 2.0 AND 3.0. (#26,815 SQ. YDS.)

GENERAL NOTES:

1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THE DATA IS REPRESENTATIVE OF A LARGER DATA SET.
2. COORDINATES REFER TO THE NEW YORK LONG ISLAND SYSTEM (NAD 83).
3. SOUNDINGS AND ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).
4. THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING CLASS 2 SURVEY STANDARDS IN ACCORDANCE WITH EM 1110-2-1003.
5. THE TOPOGRAPHIC MAPPING SHOWN ON THESE SHEETS IS A COMBINATION OF PHOTOGRAMMETRIC MAPPING OF AERIAL PHOTOGRAPHY, CONVENTIONAL MAPPING METHODS AND PREVIOUS SURVEYS, ALL CONFIRMED BY FIELD EDITING. A 25' GRID WAS COMPUTED TO PROVIDE SPOT ELEVATIONS FROM THE AERIAL PHOTOGRAPHY.
6. ADDITIONAL PLANIMETRIC FEATURES DEPICTED ON THIS SURVEY WERE PROVIDED BY THE SURVEY SECTION OF THE UNITED STATES ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT.
7. THIS SURVEY WAS COMPLETED USING A TRIMBLE 4000ssiRTK TOTAL STATION.
8. AERIAL SURVEY DATA SCALE: 1" = 400.
9. DATE OF FLIGHT: MARCH 25, 2003.
10. ADDITIONAL MAPPING & BATHYMETRY COMPLETED MAY, 2003.
11. CONTOUR INTERVAL IS ONE-FOOT.

SCALE: 1" = 60'



LEGEND

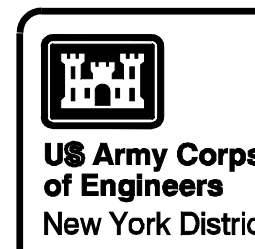
- STOCKPILE/DEWATERING LOCATIONS
- EXISTING CONTOURS
- PROPOSED CONTOURS
- APPROX. CONSERVATION EASEMENT/KEYSPAN PROPERTY LINE
- TIDE GAUGE

TIDAL DATUMS

MEAN HIGHER HIGH WATER (MHHW): 2.98
MEAN HIGH WATER (MHW): 2.36
MEAN LOW WATER (MLW): -2.28
MD TIDE LINE (MTL): 0.04
MEAN LOWER LOW WATER (MLLW): -2.42

DATUM NOTE

COORDINATES AND BEARINGS SHOWN ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM (NEW YORK LONG ISLAND NAD 83).
ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).



Revision	Date	Description
1	Apr 2005	PROPOSED GRADES DETERMINED FOR PRINTING PURPOSES

Jayne Werno, P.E.
N.Y. PROFESSIONAL ENGINEER
NO. 2006

Drawn by	Checked by	Date	Sheet No.
BB	BB	Apr 2005	4
Drawn by	Checked by	Date	Sheet No.
BB	BB	Apr 2005	4

BROOKLYN UNION GAS SITE
SALT MARSH RESTORATION
GRADING PLAN
STATEN ISLAND
NEW YORK

Sheet
reference
number.
4

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